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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SECURITY INFORMATION

COUNTRY	Hungary	REPORT	[REDACTED]	25X1
SUBJECT	Gamma-Juhász Gunsight	DATE DISTR.	17 September 1953	
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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
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(FOR KEY SEE REVERSE)

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1. The Gamma-Juhász gun-sight essentially re-creates geometrically in a system of polar coordinates the elements of position of the target, that is:
 - a. the linear distance as determined by the range finder,
 - b. the lateral angle (measured from the north), and
 - c. the angle of altitude.
2. On the basis of the change of the elements of position it determines the elements of motion and the point of hit:
 - a. the direction of flight of the aircraft and the horizontal and vertical vectors of its speed relative to the direction of flight, and
 - b. the data on the movement of the tank.
3. The gunsight registers the above elements continuously. It also determines, with due regard to the duration of flight of the missile, the point of hit and the elements pertaining thereto: the elevation, the lateral angle, and the setting of the percussion cap (after the expiration of how many seconds from the moment of the discharge must the missile explode).
4. The sight is equipped with an interference eliminator, which makes continuous corrections in respect of the position of the target on the basis of the average wind speed and direction, atmospheric pressure, and temperature.
5. All data are transmitted to the missile by means of the Siemens shooting element transmitter (110 Volt, 50-period, alternating-current signal transmitter, consisting of a 3-phase rotor and a single-phase stator).
6. As compared with 10-11 gunsights produced by the Gamma Works during the war /per month/, currently 25-30 are produced per month. Immediately after the war, production was suspended for 2½ years.

25 YEAR RE-REVIEW SECRET/CONTROL - U.S. OFFICIALS ONLY

STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC		OSI/EV	X
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(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

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- 2 -

7. The pre-war model of the Juhász sight, described in the foregoing, is used exclusively for antitank purposes at present.

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